

**BEST AVAILABLE COPY****AMENDMENTS TO THE SPECIFICATION:**

Please add the following new paragraph after the paragraph ending on Page 4, line 18 and prior to the paragraph beginning on Page 4, line 20:

For example, the represented data may be analog data, and the modulating step includes the steps of (i) providing a look-up table having wavelength differences associated with data values, (ii) obtaining from the look-up table a wavelength difference for a given data value, and (iii) encoding the given data value in the optical signal by establishing the obtained difference between the center wavelengths of the filter mechanism and the optical signal.